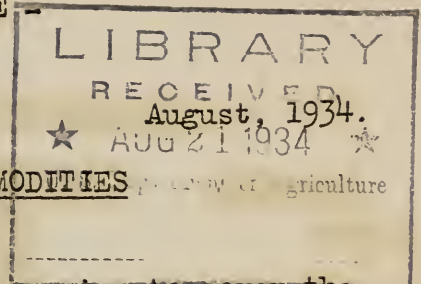


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- UNITED STATES DEPARTMENT OF AGRICULTURE -  
Bureau of Agricultural Economics



APPROXIMATE OR AVERAGE WEIGHTS OF VARIOUS COMMODITIES

Important Explanation

This table of weights, measures, and conversion factors aims to cover the most important agricultural products, or the products for which such information is most frequently asked in the Department of Agriculture. It does not claim to cover all farm products nor all containers for any one product.

The figures were assembled from various sources within the Department and from State schedules of legal weights. They were published as a supplement to "The B.A.E. News" (a Bureau paper) on January 15, 1934. That preliminary schedule went to about 800 names on the mailing list of the "News" with request for criticisms and corrections. Approximately 65 letters were received in reply, and many suggestions also came from workers in Washington.

From all suggestions and all figures presented, the following revised tabulation was prepared. Effort was made to select the most representative and fairest average for each product, particularly for fresh fruits and vegetables which show a wide variation in weight, due to differences in variety or size of the commodity and to condition and tightness of pack, etc. For such commodities as show considerable shrinkage or loss of weight between time of packing at point of production and time of sale in a terminal market, the point-of-origin weight was used.

The average weights, as given in this table, do not (necessarily) have official standing as a basis for packing or as a grounds for settling disputes. Not all of them are recognized as legal weights. The table was prepared chiefly for use of workers in the Department of Agriculture, who have need of conversion factors in statistical computations. The figures are subject to revision upon the presentation of adequate suggestions for improvement or correction.

ALL CORRECTIONS AND SUGGESTIONS should be sent to the Secretary of the Yearbook Statistical Committee, Room 3443, South Building, U.S. Department of Agriculture, Washington, D.C.

(SEE further information on fruits and vegetables at bottom of page 3 and on page 4)

Approximate or Average Weights of Various Commodities

<u>Commodity</u>	<u>Unit</u>	<u>Net weight in pounds</u>	<u>Commodity</u>	<u>Unit</u>	<u>Net weight in pounds</u>
Alfalfa seed	Bu.	60	Butter	Tub	63
Apples, fresh	Bu.	48	Cabbage	Bu.	50
" "	Box	44	" western letc.	Crate	80
" "	Barrel	140	Cantaloups Std.-45	Crate	60
Apricots, fresh	Bu.	48	Carrots	Bu.	50
" western	Crate <u>a/</u>	22	Castor oil	Gal.	8
Artichokes, Globe	Box	40	Cauliflower	Crate	39
" Jerusalem	Bu.	50	Celery 2/3	Crate	90
Asparagus, western	Crate	24	Cherries, unstemmed	Bu.	56
Barley	Bu.	48	" stemmed	Bu.	64
Beans, dry Lima	Bu.	56	" western	Lug box	15
" other dry	Bu.	60	Clover seed	Bu.	60
" " "	Sack	100	Corn, ear, husked	Bu.	70 <u>b/</u>
" Lima unshelled	Bu.	32	" shelled	Bu.	56
" snap	Bu.	30	" green, sweet	Bu.	50
Beets, table	Bu.	52	Corn oil	Gal.	7.7
Blackberries 24-qt.	Crate	36	Corn sirup	Gal.	11.5
Buckwheat	Bu.	48	Cottonseed oil	Gal.	7.7

(footnotes on next page)



Approximate or Average Weights of Various Commodities

Commodity	Unit	Net weight in pounds	Commodity	Unit	Net weight in pounds
Cotton	Bale, gross	500	Peanut oil	Gal.	7.6
"	Bale, net	478 c/	Pears, fresh	Bu.	50
Cowpeas	Bu.	60	" western	Box	46
Cranberries	Barrel	100	" western	Crate a/	22
"	$\frac{1}{2}$ -Bbl. box	50	Peas, fresh, unshel'd	Bu.	30
Cream, 30% butterfat	Gal.	8.43	" dry	Bu.	60
Cucumbers	Bu.	48	Peppers	Bu.	25
Dewberries	24-qt. Crate	36	Pineapples	Crate	70
Eggplant	Bu.	33	Plums, fresh	Bu.	56
Eggs, average size	Case, 30 dz.	45	" western	Box	20
Flaxseed	Bu.	56	" N.W. suitcase	Box	16
Flour, various	Barrel	196	Potatoes, Irish	Bu.	60
Grain sorghums	Bu.	56	" "	Barrel	165
Grapefruit, Fla.	Box	73	Prunes, fresh	Bu.	56
" Calif.	Box	60	" western	Box	20
Grapes	Bu.	48	" N.W. suitcase	Box	16
" western	Lug box	26	Quinces	Bu.	48
" western	Keg, grapes	32 }	Rape seed	Bu.	50
	sawdust	13 }	Raspberries	24-qt. Crate	36
Grapes, eastern	12-qt. Basket	18	Rice, rough	Bu.	45
Hemp seed	Bu.	44	" rough	Barrel	162
Honey	Gal.	12	" milled	Pocket	100
Horseradish roots	Bu.	35	Rosin	Dbl. gross	500
Kale	Bu.	18	Rutabagas	Bu.	56
Lard	Tierce	375	Rye	Bu.	56
Lemons, Calif.	Box	76	Sorgo sirup	Gal.	11.4
Lentils	Bu.	60	Soybeans	Bu.	60
Lespedeza seed	Bu.	25	Soybean oil	Gal.	7.7
Lettuce, western	Crate	75	Spelt	Bu.	40
Linseed oil	Gal.	7.7	Spinach	Bu.	18
Malt	Bu.	34	Strawberries	24-qt. Crate	36
Maple sirup	Gal.	11	Sweet potatoes	Bu.	52
Milk (sp.gr. 1.032)	Gal.	8.6	Tangerines, Fla. etc.	$\frac{1}{2}$ -Strap	40
Millet	Bu.	50	Timothy seed	Bu.	45
Molasses	Gal.	11.75	Tomatoes	Bu.	53
Oats	Bu.	32	"	Lug box	31
Olive oil	Gal.	7.6	Turnips	Bu.	54
Onions	Bu.	54	Turpentine	Gal.	7.23
Oranges, Fla.	Box	83	Velvet beans	Bu.	60
" Calif.	Box	70	Wheat	Bu.	60
Orchard grass	Bu.	14			
Parsnips	Bu.	50			
Peaches, fresh	Bu.	48			
" western	Box	20			
Peanuts, unsh. Va.	Bu.	22			
" " Runners	Bu.	28			
" " Spanish	Bu.	30			

Production of many field crops, cabbage, nuts, certain fruits, and vegetables for manufacture is estimated in..Short tons, 2000 lbs.

a/ Crates  $4\frac{1}{4}$  x 16 x 16  $1\frac{1}{8}$  inches.

c/ Rough approximation of net weight.

b/ The standard weight of 70 pounds is usually recognized as being about two (2) measured bushels of corn, husked, on the ear, as it requires 70 pounds to yield 1 bushel, or 56 pounds, of shelled corn.

OTHER CONVERSION FACTORS

Commodity	Unit	Equivalent to -
Almonds	1 lb. shelled	about 3 1/3 lbs. unshelled.
Apples	1 lb. dried	about 7 lbs. fresh.
"	1 lb. "chops"	about 5 lbs. fresh.
"	1 barrel	approx. 3 boxes or 3 bu. baskets.
Apricots	1 lb. dried	about 5 1/2 lbs. fresh.
Barley flour	1 bbl. (196 lbs.)	about 9 bu. barley.
Beans, Lima	1 lb. shelled	about 2 lbs. unshelled.
Brazil nuts	1 lb. shelled	about 2 lbs. unshelled.
Buckwheat flour	1 bbl. (196 lbs.)	about 7 bu. buckwheat.
Cane sirup	1 gallon	about 5 lbs. sugar.
Cherries	1 lb. dried	about 4 lbs. fresh in California; 5 lbs. fresh elsewhere.
Corn, shelled	1 bu. (56 lbs.)	about 2 bu. (70 lbs.) of husked ear corn.
Corn meal - degermed	1 bbl. (196 lbs.)	about 6 bu. corn.
" " non-degermed	1 bbl. (196 lbs.)	about 4 bu. corn.
Cotton	1 lb. ginned	about 2.86 lbs. unginned.
Dates	1 lb. dried	about 1.33 lbs. fresh.
Eggs	1 case (45 lbs.)	35.3 lbs. frozen or liquid eggs.
Figs	1 lb. dried	about 3 lbs. fresh in California; 4 lbs. fresh elsewhere.
Grapefruit, Florida	1 case canned	slightly less than 1 box fresh fruit.
Filberts	1 lb. shelled	about 2.22 lbs. unshelled.
Flaxseed	1 bushel	yields about 2 1/2 gallons oil.
Fruits, canned	1 lb. canned	mostly about 2 lbs. fresh.
Linseed oil	1 gallon	from 4/10 bu. flaxseed.
Malt	1.1 bushel	1 bushel barley
Maple sirup	1 gallon	about 8 lbs. sugar.
Oatmeal	1 bbl. (196 lbs.)	about 10 8/9 bu. oats.
Peaches, California	1 lb. dried	about 5 1/2 lbs. fresh.
Pecans	1 lb. shelled	about 2 1/2 lbs. unshelled.
Peanuts	1 lb. shelled	about 1 1/2 lbs. unshelled.
Pears	1 lb. dried	about 5 1/2 lbs. fresh.
Peas, green	1 lb. shelled	about 2.2 lbs. unshelled.
Prunes	1 lb. dried	about 2 1/2 lbs. fresh in California; 3 to 4 lbs. fresh elsewhere.
Raisins	1 lb.	about 4 lbs. fresh grapes.
Rice	1 lb. milled	about 1.58 lbs. rough or unhulled.
Rye flour	1 bbl. (196 lbs.)	about 6 bu. rye.
Sugar	1 ton raw	about .960 ton refined Hawaii; .946 ton Puerto Rico and Philipinos; .941 ton Cuba and others. (Tentative data)
Tobacco	1 lb. stemmed	about 1.33 lbs. unstemmed.
Walnuts, English	1 lb. shelled	about 2.5 lbs. unshelled.
Wheat flour	1 bbl. (196 lbs.)	about 4.6 bu. wheat.
Wool	1 lb. scoured	about 2 lbs. grease.
"	1 lb. pulled	about 1 1/3 lbs. grease.

NOTE:- The Dept. recommends standard containers (not weights) for fruits and vegs.

See next page for information regarding standard containers, etc.



For purposes of actual trading in fruits and vegetables, the Department of Agriculture takes the position that it is impracticable to define a unit of volume, such as a bushel, of fruits or vegetables in terms of weight, because the weight of such commodities is likely to vary greatly under different conditions and in different places.

In order to facilitate and expedite the sale and distribution of fruits and vegetables, many of which are highly perishable, and in lieu of "standard" weights for such commodities, the Federal Government has fixed the standard sizes of certain commonly-used containers. Among these are berry boxes and/or till baskets, Climax baskets, hampers, round stave baskets (including "tub" baskets), and splint or market baskets, all of which are sub-divisions or multiples of the standard bushel of 2,150.42 cubic inches. More recently a 1-pound Climax basket for mushrooms has been officially adopted. The standard fruit and vegetable barrel, also provided by Federal law, contains 7,056 cubic inches.

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UNITED STATES DEPARTMENT OF AGRICULTURE  
Bureau of Agricultural Economics  
Division of Statistical and Historical Research

January, 1935

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JAN 18 1935

APPROXIMATE OR AVERAGE WEIGHTS OF VARIOUS COMMODITIES

(NOTE:- This revised list should be substituted for the one dated August, 1934)

Important Explanation

This table of weights, measures, and conversion factors aims to cover the most important agricultural products, or the products for which such information is most frequently asked in the Department of Agriculture. It does not claim to cover all farm products nor all containers for any one product.

The figures were assembled from various sources within the Department and from State schedules of legal weights. Effort was made to select the most representative and fairest average for each product, particularly for fresh fruits and vegetables which show a wide variation in weight, due to differences in variety or size of the commodity and to condition and tightness of pack, etc. For such commodities as show considerable shrinkage or loss of weight between time of packing at point of origin and time of sale in a terminal market, the point-of-origin weight was used.

The average weights, as given in this table, do not (necessarily) have official standing as a basis for packing or as a grounds for settling disputes. Not all of them are recognized as legal weights. The table was prepared chiefly for use of workers in the Department of Agriculture, who have need of conversion factors in statistical computations. The figures are subject to revision upon the presentation of adequate suggestions for improvement or correction.

All suggestions or corrections should be sent to the Secretary of the Yearbook Statistical Committee, Room 3912, South Building, Department of Agriculture, Washington, D.C.

Approximate or Average Weights of Various Commodities

<u>Commodity</u>	<u>Unit</u>	<u>Net weight in pounds</u>	<u>Commodity</u>	<u>Unit</u>	<u>Net weight in pounds</u>
Alfalfa seed	Bu.	60	Butter	Tub	63
Apples, fresh	Bu.	48	Cabbage	1½-bu. Hamper	50
" "	Box	44	" western letc.	Crate	80
" "	Barrel	140	Cantaloups	Std. 45 Crate	60
Apricots, fresh	Bu.	48	Carrots	Bu.	50
" western	Crate a/	22	Castor oil	Gal.	8
Artichokes, Globe	Box	40	Cauliflower	Crate	39
" Jerusalem	Bu.	50	Celery	2/3 Crate	90
Asparagus, western	Crate	24	Cherries, unstemmed	Bu.	56
Barley	Bu.	48	" stemmed	Bu.	64
Beans, dry Lima	Bu.	56	" western	Lug box	15
" other dry	Bu.	60	Clover seed	Bu.	60
" " "	Sack	100	Corn, ear, husked	Bu.	70 b/
" Lima unshelled	Bu.	32	" shelled	Bu.	56
" snap	Bu.	30	" green, sweet	Bu.	50
Beets, table	Bu.	52	Cornmeal	Bu.	50
Blackberries, 24-qt.	Crate	36	Corn oil	Gal.	7.7
Bluegrass seed	Bu.	14	Corn sirup	Gal.	11.5
Broomcorn seed	Bu.	48	Cotton	Bale, gross	500
Buckwheat	Bu.	48	"	Bale, net	478 c/

(See footnotes on page 3)



Approximate or Average Weights of Various Commodities

<u>Commodity</u>	<u>Unit</u>	<u>Net weight in pounds</u>	<u>Commodity</u>	<u>Unit</u>	<u>Net weight in pounds</u>
Cottonseed	Bu.	32 d/	Peanuts, unshelled:		
Cottonseed oil	Gal.	17.7	Virginia	Bu.	22
Cowpeas	Bu.	60	Runners	Bu.	28
Cranberries	Barrel	100	Spanish	Bu.	30
"	$\frac{1}{2}$ - Bbl. box	50	Pears, fresh	Bu.	50
Cream, 30% butterfat	Gal.	8.43	" western	Box	46
Cucumbers	Bu.	48	" western	Crate a/	22
Dewberries	24-qt. Crate	36	Peas, fresh, unsh.	Bu.	30
Eggplant	Bu.	33	" dry	Bu.	60
Eggs, average size	Case, 30dz.	45	Peppers	Bu.	25
Flaxseed	Bu.	56	Pineapples	Crate	70
Flour, various	Barrel	196	Plums, fresh	Bu.	56
Grain sorghums	Bu.	56	" western	Box	20
Grapefruit, Florida	Box	80	" N.W. suitcase	Box	16
" Calif.	Box	60	Popcorn, on ear	Bu.	70 b/
Grapes	Bu.	48	Potatoes, Irish	Bu.	60
" western	Lug box	26	" "	Barrel	165
" western	Keg, grapes	32 }	Prunes, fresh	Bu.	56
	sawdust	13 }	" western	Box	20
Grapes, eastern 12-qt.	Basket	18	" N.W. suitcase	Box	16
Hemp seed	Bu.	44	Quinces	Bu.	48
Hickory nuts	Bu.	50	Rape seed	Bu.	50
Honey	Gal.	12	Raspberries 24-qt.	Crate	36
Horseradish roots	Bu.	35	Redtop seed	Bu.	14
Hungarian grass seed	Bu.	50	Rice, rough	Bu.	45
Kafir corn	Bu.	56	" rough	Barrel	162
Kale	Bu.	18	" milled	Pocket	100
Lard	Tierce	375	Rosin	Barrel, gross	500
Lemons, Calif.	Box	76	Rutabagas	Bu.	56
Lentils	Bu.	60	Rye	Bu.	56
Lespedeza seed	Bu.	25 e/	Sorgo sirup	Gal.	11.4
Lettuce, western	Crate	75	Soybeans	Bu.	60
Linseed oil	Gal.	7.7	Soybean oil	Gal.	7.7
Malt	Bu.	34	Spelt	Bu.	40
Maple sirup	Gal.	11	Spinach	Bu.	18
Meadow fescue seed	Bu.	24	Strawberries 24-qt.	Crate	36
Milk (sp.gr. 1.032)	Gal.	8.6	Sudan grass seed	Bu.	40
Millet	Bu.	50	Sunflower seed	Bu.	24
Molasses	Gal.	11.75	Sweet potatoes	Bu.	55 f/
Oats	Bu.	32	Tangerines, Fla. $\frac{1}{2}$ -Strap		40
Olive oil	Gal.	7.6	Timothy seed	Bu.	45
Onions, dry	Bu.	54	Tomatoes	Bu.	53
Onion sets	Bu.	28-32	"	Lug box	31
Oranges, Florida	Box	90	Turnips	Bu.	54
" Calif.	Box	70	Turpentine	Gal.	7.23
Orchard grass	Bu.	14	Velvet beans	Bu.	60 "
Parsnips	Bu.	50	Walnuts	Bu.	50 "
Peaches, fresh	Bu.	48	Wheat	Bu.	60 "
" western	Box	20			
Peanut oil	Gal.	7.6			

(See footnotes on page 3)



PRODUCTION of many field crops, cabbage, nuts, certain fruits, and vegetables for manufacture, is estimated in.....Short tons 2,000 lbs.

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Footnotes:

- a/ Crates  $4\frac{1}{4}$  x 16 x 16  $1\frac{1}{8}$  inches.
- b/ The standard weight of 70 pounds is usually recognized as being about two (2) measured bushels of corn, husked, on the ear, because it requires 70 pounds to yield 1 bushel, or 56 pounds, of shelled corn.
- c/ Rough approximation of net weight.
- d/ Average weight of cottonseed, although the legal weight in some States varies from this figure of 32 pounds.
- e/ The weight of lespedeza seed is recognized as 25 pounds per bushel in some States, although in other States common seed will weigh 28 pounds, the Kobe seed 30 pounds, and the Korean seed as high as 44 pounds.
- f/ This average of 55 pounds indicates the usual weight of sweet potatoes when harvested. Much weight is lost in curing or drying, and the net weight when sold in terminal markets may be far below 55 pounds.

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THE DEPARTMENT RECOMMENDS STANDARD CONTAINERS  
FOR FRUITS AND VEGETABLES

For purposes of actual trading in fruits and vegetables, the Department of Agriculture takes the position that it is impracticable to define a unit of volume, such as a bushel, of fruits or vegetables in terms of weight, because the weight of such commodities is likely to vary greatly under different conditions and in different places.

In order to facilitate and expedite the sale and distribution of fruits and vegetables, many of which are highly perishable, and in lieu of "standard" weights for such commodities, the Federal Government has fixed the standard sizes of certain commonly-used containers. Among these are berry boxes and/or till baskets, Climax baskets, hampers, round stave baskets (including "tub" baskets), and splint or market baskets, all of which are sub-divisions of or multiples of the standard bushel of 2,150.42 cubic inches. More recently, a 1-pound Climax basket for mushrooms has been officially adopted. The standard fruit and vegetable barrel, also provided by Federal law, contains 7,056 cubic inches.

OTHER CONVERSION FACTORS

are listed on

Page 4

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OTHER CONVERSION FACTORS

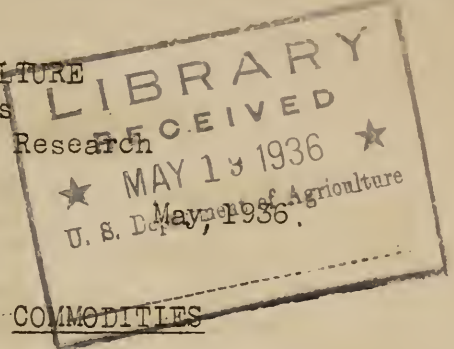
Commodity	Unit	Equivalent to -
Almonds	1 lb. shelled	about 3 1/3 lbs. unshelled.
Apples	1 lb. dried	about 7 lbs. fresh.
"	1 lb. "chops"	about 5 lbs. fresh.
"	1 barrel	approx. 3 boxes or 3 bu. baskets.
Apricots	1 lb. dried	about 5 1/2 lbs. fresh.
Barley flour	1 bbl. (196 lbs.)	about 9 bu. barley.
Beans, Lima	1 lb. shelled	about 2 lbs. unshelled.
Brazil nuts	1 lb. shelled	about 2 lbs. unshelled.
Buckwheat flour	1 bbl. (196 lbs.)	about 7 bu. buckwheat.
Cane sirup	1 gallon	about 5 lbs. sugar.
Cherries	1 lb. dried	about 4 lbs. fresh in California; 5 lbs. fresh elsewhere.
Corn, shelled	1 bu. (56 lbs.)	about 2 bu. (70 lbs.) of husked ear corn.
Cornmeal - degermed	1 bbl. (196 lbs.)	about 6 bu. corn.
" non-degermed	1 bbl. (196 lbs.)	about 4 bu. corn.
Cotton	1 lb. ginned	about 2.86 lbs. unginned.
Dates	1 lb. dried	about 1.33 lbs. fresh.
Eggs	1 case (45 lbs.)	35.3 lbs. frozen or liquid eggs.
Figs	1 lb. dried	about 3 lbs. fresh in California; 4 lbs. fresh elsewhere.
Grapefruit, Florida	1 case canned	slightly less than 1 box fresh fruit.
Filberts	1 lb. shelled	about 2.22 lbs. unshelled.
Flaxseed	1 bushel	yields about 2 1/2 gallons oil.
Fruits, canned	1 lb. canned	mostly about 2 lbs. fresh.
Linseed oil	1 gallon	from 4/10 bu. flaxseed.
Malt	1.1 bushel	1 bushel barley.
Maple sirup	1 gallon	about 8 lbs. sugar.
Oatmeal	1 bbl. (196 lbs.)	about 10 8/9 bu. oats.
Peaches, California	1 lb. dried	about 5 1/2 lbs. fresh.
Pecans,	1 lb. shelled	about 2 1/2 lbs. unshelled.
Peanuts	1 lb. shelled	about 1 1/2 lbs. unshelled.
Pears	1 lb. dried	about 5 1/2 lbs. fresh.
Peas, green	1 lb. shelled	about 2.2 lbs. unshelled.
Prunes	1 lb. dried	about 2 1/2 lbs. fresh in California; 3 to 4 lbs. fresh elsewhere.
Raisins	1 pound	about 4 lbs. fresh grapes.
Rice	1 lb. milled	about 1.58 lbs. rough or unhulled rice.
Rye flour	1 bbl. (196 lbs.)	about 6 bu. rye.
Sugar	1 ton raw	about 0.9617 ton refined in Hawaii; 0.9460 ton refined in Puerto Rico and Philippines; 0.9418 ton refined in Cuba and other sections.
Tobacco	1 lb. stemmed	about 1.33 lbs. unstemmed.
Walnuts, "English"	1 lb. shelled	about 2.5 lbs. unshelled.
Wheat flour	1 bbl. (196 lbs.)	about 4.6 bu. cleaned wheat.
Wool	1 lb. scoured	about 2 lbs. grease.
Wool	1 lb. pulled	about 1 1/3 lbs. grease.

Frozen-Pack Berries in Pacific Northwest:

Container	Capacity	Pack	Usual Weight (net)
Barrel	50 gal.	2+1 (2 parts berries to 1 of sugar)	450 lbs.
Barrel	50 gal.	without sugar	380 lbs.
Barrel	50 gal.	3+1 pack	425 lbs.



UNITED STATES DEPARTMENT OF AGRICULTURE  
Bureau of Agricultural Economics  
Division of Statistical and Historical Research



Revised list  
of  
APPROXIMATE OR AVERAGE WEIGHTS OF VARIOUS COMMODITIES

(NOTE: This revised list should be substituted for the earlier ones, dated August, 1934, and January, 1935)

Important Explanation

This table of weights, measures, and conversion factors aims to cover the most important agricultural products, or the products for which such information is most frequently asked in the Department of Agriculture. It does not claim to cover all farm products nor all containers for any one product.

The figures were assembled from various sources within the Department and from State schedules of legal weights. Effort was made to select the most representative and fairest average for each product, particularly for fresh fruits and vegetables which show a wide variation in weight, due to differences in variety or size of the commodity and to condition and tightness of pack, etc. For such commodities as show considerable shrinkage or loss of weight between time of packing at point of origin and time of sale in a terminal market, the point-of-origin weight was used.

The average weights, as given in this table, do not (necessarily) have official standing as a basis for packing or as a grounds for settling disputes. Not all of them are recognized as legal weights. The table was prepared chiefly for use of workers in the Department of Agriculture, who have need of conversion factors in statistical computations. The figures are subject to revision upon the presentation of adequate suggestions for improvement or correction.

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Approximate or Average Weights of Various Commodities

<u>Commodity</u>	<u>Unit</u>	<u>Net weight in pounds</u>	<u>Commodity</u>	<u>Unit</u>	<u>Net weight in pounds</u>
Alfalfa seed	Bu.	60	Bluegrass seed	Bu.	14-30
Apples, fresh	Bu.	48	Broomcorn	Bale	333
" "	Box	44		(6 bales per ton)	
" "	Barrel	140	Broomcorn seed	Bu.	44-50
Apricots, fresh	Bu.	48	Buckwheat	Bu.	48-52
" western	Crate <u>a/</u>	22	Butter	Tub	63
Artichokes, Globe	Box	40	Cabbage	1½-bu. Hamper	50
" Jerusalem	Bu.	50	" western letc.	Crate	80
Asparagus	Crate	24	Cantaloups	Std.-45 Crate	60
Barley	Bu.	48	Carrots	Bu.	50
Beans, dry Lima	Bu.	56	Castor beans	Bu.	46
" other dry	Bu.	60	Castor oil	Gal.	b/ 8
" " "	Sack	100	Cauliflower	Crate	39
" Lima unshelled	Bu.	32	Celery	2/3 Crate	90
" snap	Bu.	30	Cherries, unstemmed	Bu.	56
Beets, table	Bu.	52	" stemmed	Bu.	64
Blackberries, 24-qt.	Crate	36	" western	Lug box	15

(See footnotes on page 3)

# Approximate or Average Weights of Various Commodities

<u>Commodity</u>	<u>Unit</u>	<u>Net weight in pounds</u>	<u>Commodity</u>	<u>Unit</u>	<u>Net weight in pounds</u>
Clover seed	Bu.	60	Olive oil	Gal.	b/ 7.5
Corn, ear, husked	Bu.	c/ 70	Onions, dry	Bu.	54
" shelled	Bu.	56	Onion sets	Bu.	28-32
" green, sweet	Bu.	35	Oranges, Florida	Box	90
Cornmeal	Bu.	50	" Calif.	Box	70
Corn oil	Gal.	b/ 7.5	Orchard grass	Bu.	14
Corn sirup	Gal.	11.5	Palm oil	Gal.	b/ 7.5
Cotton	Bale, gross	500	Parsnips	Bu.	50
"	Bale, net	d/ 478	Peaches, fresh	Bu.	48
Cottonseed	Bu.	e/ 32	" western	Box	20
Cottonseed oil	Gal.	b/ 7.5	Peanut oil	Gal.	b/ 7.5
Cowpeas	Bu.	60	Peanuts, unshelled:		
Cranberries	Barrel	100	Virginia	Bu.	22
"	$\frac{1}{2}$ -Bbl. box	50	Runners	Bu.	28
Cream, 30% butterfat	Gal.	8.43	Spanish	Bu.	30
Cucumbers	Bu.	48	Pears, fresh	Bu.	50
Dewberries	24-qt. Crate	36	" western	Box	46
Eggplant	Bu.	33	" western	Crate a/	22
Eggs, average size	Case, 30 dz.	45	Peas, fresh, unshelled	Bu.	30
Flaxseed	Bu.	56	" dry	Bu.	60
Flour, various	Barrel	196	Peppers	Bu.	25
Grain sorghums	Bu.	56	Perilla seed	Bu.	28
Grapefruit, Florida	Box	80	Pineapples	Crate	70
" Calif.	Box	60	Plums, fresh	Bu.	56
Grapes	Bu.	48	" western	Box	20
" western	Lug. box	26	" N.W. suitcase	Box	16
" western	Keg, grapes	32	Popcorn, on ear	Bu.	c/ 70
	sawdust	13	" shelled	Bu.	56
Grapes, eastern 12-qt.	Basket	18	Poppy seed	Bu.	46
Hemp seed	Bu.	44	Potatoes, Irish	Bu.	60
Hickory nuts	Bu.	50	" "	Barrel	165
Honey	Gal.	12	Prunes, fresh	Bu.	56
Hops	Bale	200	" western	Box	20
Horseradish roots	Bu.	35	" N.W. suitcase	Box	16
Hungarian grass seed	Bu.	50	Quinces	Bu.	48
Kafir	Bu.	56	Rape seed	Bu.	50 & 60
Kale	Bu.	18	Raspberries	24-qt. Crate	36
Kapok seed	Bu.	35-40	Redtop seed	Bu.	14-40
Lard	Tierce	375	Rice, rough	Bu.	45
Lemons, Calif.	Box	76	" rough	Barrel	162
Lentils	Bu.	60	" milled	Pocket	100
Lespedeza seed	Bu.	f/ 25	Rosin	Bbl. gross	500
Lettuce, western	Crate	75	Rutabagas	Bu.	56
Linseed oil	Gal.	b/ 7.5	Rye	Bu.	56
Malt	Bu.	34	Sesame seed	Bu.	46
Maple sirup	Gal.	11	Sorgo seed	Bu.	50
Meadow fescue seed	Bu.	24	Sorgo sirup	Gal.	11.4
Milk (sp.gr. 1.032)	Gal.	8.6	Soybeans	Bu.	60
Millet	Bu.	48-50	Soybean oil	Gal.	b/ 7.5
Molasses	Gal.	11.75	Spelt	Bu.	40
Mustard seed	Bu.	58-60	Spinach	Bu.	18
Oats	Bu.	32	Strawberries	24-qt. Crate	36

(See footnotes on page 3)



Approximate or Average Weights of Various Commodities

		Net weight				Net weight	
<u>Commodity</u>	<u>Unit</u>	<u>in pounds</u>		<u>Commodity</u>	<u>Unit</u>	<u>in pounds</u>	
Sudan grass seed	Bu.	40		Turnips	Bu.	54	
Sugarcane sirup	Gal.	11.25		Turpentine	Gal.	7.23	
Sunflower seed	Bu.	24 & 32		Velvet beans (hulled)	Bu.	60	
Sweet potatoes	Bu.	55		Vetch	Bu.	60	
Tangerines, Fla.	$\frac{1}{2}$ -Strap	40		Walnuts	Bu.	50	
Timothy seed	Bu.	45		Water, 60 degrees F.	Gal.	8.33	
Tomatoes	Bu.	53		Wheat	Bu.	60	
"	Lug box	31					

PRODUCTION of many field crops, cabbage, nuts, certain fruits, and vegetables for manufacture is estimated in .....Short tons 2,000 lbs.

Footnotes:

- a/ Crates  $4\frac{1}{4}$  x 16 x 16  $\frac{1}{8}$  inches.
- b/ This is the weight commonly used in trade practice, the actual weight varying according to temperature conditions.
- c/ The standard weight of 70 pounds is usually recognized as being about two (2) measured bushels of corn, husked, on the ear, because it requires 70 pounds to yield 1 bushel, or 56 pounds, of shelled corn.
- d/ Rough approximation of net weight.
- e/ Average weight of cottonseed, although the legal weight in some States varies from this figure of 32 pounds.
- f/ The weight of lespedeza seed is recognized as 25 pounds per bushel in some States, although in other States common seed will weigh 28 pounds, the Kobe seed 30 pounds, and the Korean seed as high as 45 pounds.
- g/ This average of 55 pounds indicates the usual weight of sweet potatoes when harvested. Much weight is lost in curing or drying, and the net weight when sold in terminal markets may be far below 55 pounds.

THE DEPARTMENT RECOMMENDS STANDARD CONTAINERS  
FOR FRUITS AND VEGETABLES

For purposes of actual trading in fruits and vegetables, the Department of Agriculture takes the position that it is impracticable to define a unit of volume, such as a bushel, of fruits or vegetables in terms of weight, because the weight of such commodities is likely to vary greatly under different conditions and in different places.

In order to facilitate and expedite the sale and distribution of fruits and vegetables, many of which are highly perishable, and in lieu of "standard" weights for such commodities, the Federal Government has fixed the standard sizes of certain commonly-used containers. Among these are berry boxes and/or till baskets, Climax baskets, hampers, round stave baskets (including "tub" baskets), and splint or market baskets, all of which are sub-divisions of or multiples of the standard bushel of 2,150.42 cubic inches. More recently, a 1-pound Climax basket for mushrooms has been officially adopted. The standard fruit and vegetable barrel, also provided by Federal law, contains 7,056 cubic inches.

(OTHER CONVERSION FACTORS are listed on page 4, - over.)

OTHER CONVERSION FACTORS

Commodity	Unit	Equivalent to -
Almonds	1 lb. shelled	about 3 1/3 lbs. unshelled.
Apples	1 lb. dried	about 7 lbs. fresh.
"	1 lb. "chops"	about 5 lbs. fresh.
"	1 barrel	approx. 3 boxes or 3 bu. baskets.
Apricots	1 lb. dried	about 5 1/2 lbs. fresh.
Barley flour	1 bbl. (196 lbs.)	about 9 bu. barley.
Beans, Lima	1 lb. shelled	about 2 lbs. unshelled.
Brazil nuts	1 lb. shelled	about 2 lbs. unshelled.
Buckwheat flour	1 bbl. (196 lbs.)	about 7 bu. buckwheat.
Cane sirup	1 gallon	about 5 lbs. sugar.
Cherries	1 lb. dried	about 4 lbs. fresh in California; 5 lbs. fresh elsewhere.
Corn, shelled	1 bu. (56 lbs.)	about 2 bu. (70 lbs.) of husked ear corn.
Cornmeal - degermed	1 bbl. (196 lbs.)	about 6 bu. corn.
" non-degermed	1 bbl. (196 lbs.)	about 4 bu. corn.
Cotton	1 lb. ginned	about 2.86 lbs. unginned.
Dates	1 lb. dried	about 1.33 lbs. fresh.
Eggs	1 case (45 lbs.)	35.3 lbs. frozen or liquid eggs.
Figs	1 lb. dried	about 3 lbs. fresh in California; 4 lbs. fresh elsewhere.
Grapefruit, Florida	1 case canned	slightly less than 1 box fresh fruit.
Filberts	1 lb. shelled	about 2.22 lbs. unshelled.
Flaxseed	1 bushel	yields about 2 1/2 gallons oil.
Linseed oil	1 gallon	from 4/10 bu. flaxseed.
Malt	1.1 bushel	1 bushel barley.
Maple sirup	1 gallon	about 8 lbs. sugar.
Oatmeal	1 bbl. (196 lbs.)	about 10 8/9 bu. oats.
Peaches, California	1 lb. dried	about 5 1/2 lbs. fresh.
Pecans	1 lb. shelled	about 2 1/2 lbs. unshelled.
Peanuts	1 lb. shelled	about 1 1/2 lbs. unshelled.
Pears	1 lb. dried	about 5 1/2 lbs. fresh.
Peas, green	1 lb. shelled	about 2.5 lbs. unshelled.
Prunes	1 lb. dried	about 2 1/2 lbs. fresh in California; 3 to 4 lbs. fresh elsewhere.
Raisins	1 pound	about 4 lbs. fresh grapes.
Rice	1 lb. milled	about 1.62 lbs. rough or unhulled rice.
Rye flour	1 bbl. (196 lbs.)	about 6 bu. rye.
Sugar	1 ton raw	about 0.9617 ton refined in Hawaii; 0.9460 ton refined in Puerto Rico and Philippines; 0.9418 ton refined in Cuba and other sections.
Tobacco	1 lb. stemmed	about 1.33 lbs. unstemmed.
Walnuts, "English"	1 lb. shelled	about 2.38 lbs. unshelled.
Wheat flour	1 bbl. (196 lbs.)	about 4.7 bu. cleaned wheat.
Wool	1 lb. scoured	about 2 lbs. grease.
Wool	1 lb. pulled	about 1 1/3 lbs. grease.

Frozen-Pack Berries in Pacific Northwest:

Container	Capacity	Pack	Usual Weight (net)
Barrel	50 gal.	2+1 (2 parts berries to 1 of sugar)	450 lbs.
Barrel	50 gal.	without sugar	380 lbs.
Barrel	50 gal.	3+1 pack	425 lbs.